

**Polynuclear Aromatic Hydrocarbon
Sample Data Summary Package Cover Sheet**

Client: FOSTER WHEELER
Project: ROXANNA MARSH
SDG: 920839

Case Narrative

Client FOSTER WHEELER
Project Name ROXANNA MARSH
Project Number 1980.0208.0100
SDG 920839
Fraction BNA

Lab Number	Sample ID	Collect Date	Rec Date	Matrix
920839-001	FW-RM-15-SS	3/19/2002	3/21/2002	SOIL
920839-002	FW-RM-10-SS	3/19/2002	3/21/2002	SOIL
920839-003	FW-RM-12-SS	3/19/2002	3/21/2002	SOIL
920839-004	FW-RM-16-SS	3/19/2002	3/21/2002	SOIL
920839-005	FW-RM-02-SS	3/19/2002	3/21/2002	SOIL
920839-006	FW-RM-06-SS	3/19/2002	3/21/2002	SOIL
920839-007	FW-RM-05-SS	3/19/2002	3/21/2002	SOIL
920839-008	FW-RM-17-SS	3/19/2002	3/21/2002	SOIL
920839-009	FW-RM-07-SS	3/19/2002	3/21/2002	SOIL
920839-010	FW-RM-08-SS	3/19/2002	3/21/2002	SOIL
920839-011	FW-RM-09-SS	3/19/2002	3/21/2002	SOIL
920839-012	FW-RM-01-SS	3/19/2002	3/21/2002	SOIL
920839-013	FW-RM-04-SS	3/19/2002	3/21/2002	SOIL
920839-014	FW-RM-01-SSMS	3/19/2002	3/21/2002	SOIL
920839-015	FW-RM-03-SS	3/19/2002	3/21/2002	SOIL
920839-017	FW-RM-08-CS-2.3-4.4	3/19/2002	3/21/2002	SOIL
920839-018	FW-RM-08-CS-1-2.3	3/19/2002	3/21/2002	SOIL
920839-019	FW-RM-09-CS-1-3.5	3/19/2002	3/21/2002	SOIL
920839-020	FW-RM-09-CS-3.5-4.9	3/19/2002	3/21/2002	SOIL
920839-021	FW-RM-17-CS-0-1.5	3/19/2002	3/21/2002	SOIL
920839-022	FW-RM-RB-01	3/19/2002	3/21/2002	WATER
920839-023	FW-RM-17-CS-1.5-3.5	3/19/2002	3/21/2002	SOIL
920839-027	FW-RM-01-SSMSD	3/19/2002	3/21/2002	SOIL
920839-028	MB1920839			SOIL
920839-029	MB1920839LCS			SOIL
920839-031	MB2920839			WATER

Lab Number	Sample ID	Collect Date	Rec Date	Matrix
920839-032	MB2920839LCS			WATER
920839-033	MB2920839LCSD			WATER

EN CHEM, INC
CASE NARRATIVE - PAHs by GC/MS

Lab Report Number (SDG): 920839

Client: FOSTER WHEELER

Project Name: ROXANNA MARSH

Project Number: 1980.0208.0100

1. RECEIPT

The samples were received on ice.

2. HOLDING TIMES

- A. **Sample Preparation:** All method holding times were met.
- B. **Sample Analysis:** All method holding times were met.

3. METHOD

Preparation: SW-846 3550B, SW846 3510

Analysis: SW-846 8270C

4. PREPARATION

Sample preparation proceeded normally.

5. ANALYSIS

- A. **Calibration:**
 - 1. **GC/MS Tune:** All method acceptance criteria were met.
 - 2. **Initial verification:** The method acceptance criteria were met for all CCC and SPCC compounds.
 - 3. **Continuing verification:** The method acceptance criteria were met for all CCC and SPCC compounds.
- B. **Blanks:**
 - 1. **Method:** All in-house acceptance criteria were met
- C. **Surrogates:** All surrogate recoveries met the in-house acceptance criteria. Due to the dilution level at which samples FW-RM-05-SS, FW-RM-17-CS, FW-RM-17-CS-0-1.5 and FW-RM-17-CS-0-1.5DL were analyzed the recovery criteria is not applicable.
- D. **Spikes:**
 - 1. **Lab Control Spike/Laboratory Control Spike Duplicate (LCS/LCSD):** The laboratory control spike (MB1920839LCS) associated to the soil samples met all in-house accuracy criteria. The laboratory control spike (MB2920839LCS) associated to the water sample met all in-house accuracy criteria. The laboratory control spike duplicate (MB2920839LCSD) did not meet the in-house accuracy criteria for Anthracene. All associated sample results for this analyte were reported with an “&” data qualifier without further corrective action as the laboratory standard operating procedure (SOP) allows for a limited number of analytes to fall outside the acceptance criteria based on the number of spiked analytes. The MB2920839LCSD met all other accuracy and all precision criteria.
 - 2. **Matrix Spike / Matrix Spike Duplicate (MS/MSD):** Sample FW-RM-01-SS was designated as the matrix spike sample for this SDG. Recoveries of Pyrene and Dibenzo(a,h)anthracene did not meet the in-house accuracy criteria. The parent and spike sample results for these analytes were reported with an “N” data qualifier. All other accuracy and all precision criteria were met.
- E. **Internal Standards:** All in-house acceptance criteria were met.
- F. **Samples:** Sample analyses proceeded normally.
- G. **Dilutions:** All soil samples were analyzed at dilutions due to matrix interferences which caused low internal standard recoveries in the undiluted analyses. Sample results were reported to the laboratory method detection limit (MDL) to provide the lowest reporting limit possible for the non detected analytes. The level of Pyrene detected for sample FW-RM-17-CS-0-1.5 analyzed at a 1:20 dilution exceeded the calibration range of the instrument. The sample was analyzed a second time at a 1:60 dilution and the Pyrene result was reported from this second analysis with a “D” data qualifier.

- H. Reanalysis: None reported for this SDG.
- I. Comments: None.

I certify that this data package is in compliance with the terms and conditions agreed to by En Chem, Inc. and by the client, both technically and for completeness, except for the conditions detailed above. The Laboratory Manager or his designee, as verified by the following signature, has authorized release of the data contained in this hard copy data package and in the computer-readable data submitted on diskette:

Signed: Lynn M Dieffenbach Date: 4-22-02
Name: Lynn M Dieffenbach Position: Project Manager

Organic Data Qualifiers

- B Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
- C Elevated detection limit (see Sample Narrative).
- D Analyte value from diluted analysis.
- E Analyte concentration exceeds calibration range (see Sample Narrative).
- F Surrogate results outside control criteria or not available due to sample dilution.
- H(n) Extraction or analysis performed "n" days past holding time.
- J Qualitative evidence of analyte present: concentration detected is greater than the method detection limit but less than the reporting limit.
- K Detection limit may be elevated due to the presence of an unrequested analyte (see Sample Narrative).
- N Spiked sample recovery not within control limits.
- P The relative percent difference between the two columns for detected concentrations was greater than 40%.
- Q The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
- S The relative percent difference between quantitation and confirmation columns exceeds internal quality control criteria. Because the result is unconfirmed, it has been reported as a non-detect with an elevated detection limit.
- U The analyte was not detected above the reporting limit.
- W Sample received with headspace.
- X See Sample Narrative.
- & Laboratory Control Spike recovery not within control limits.
- * Duplicate analyses not within control limits.
- SUB1 Assay was subcontracted to an approved lab.
- SUB2 Assay was subcontracted to En Chem Green Bay WI Cert. #405132750.

(Please Print Legibly)
 Company Name: Feslon Water

Branch or Location: Bethel Park
 Project Contact: Fir. Pam Moss
 Telephone: 303 - 960 - 3519

CHAIN OF CUSTODY

Project Number: 1980.0203.0100

Project Name: Penn Marsh

Project State: Tidewater

Sampled By (Print): Tom Hawkins

Data Package Options
 (please circle if requested)

Results Only

EnChem Level III (Subject to SurchARGE)
 EnChem Level IV (Subject to SurchARGE)

LABORATORY ID (Lab Use Only)	FIELD ID	COLLECTION	DATE	TIME	MATRIX	Matrix Codes W=Water S=Soil A=Air C=Charcoal B=Biotite SI=Sludge	TESTS REQUESTED (Check the Applicable Boxes)				CLIENT COMMENTS	LAB COMMENTS (Leave Blank)
							C-HCl B=HCl	C=H2SO4 H = Sodium Bisulfate Solution	E=Encore	F=Methanol G=NaOH		
020837-001	FW - RM - 15-55	3-19-02	15:26	5	1	2						
007	FW - RM - 10-55	3-19	15:35		1							
003	FW - RM - 12-55	3-19	15:05									
011	FW - RM - 16-55	3-19	15:55									
005	FW - RM - 01-55	3-19	14:38									
006	FW - RM - 06-55	3-19	14:20									
007	FW - RM - 05-55	3-19	14:53									
008	FW - RM - 13-55	3-19	12:00									
009	FW - RM - 02-55	3-19	11:46									
010	FW - RM - 08-55	3-19	10:41									
011	FW - RM - 09-55	3-19	10:55									
012	FW - RM - 01-55	3-19	10:05									

Rush Turnaround Time Requested (TAT) - Prelim
 (Rush TAT subject to approval/surcharge)

Date Needed:

Transmit Prelim Rush Results by (circle):

Phone

Fax

E-Mail

Phone #:

Fax #:

E-Mail Address:

Samples on HOLD are subject to
 special pricing and release of liability

Page / of /	PO #	Quote #
Mall Report To: <u>Pam Moss</u>	Company: <u>f2u Inc.</u>	Address: <u>143 Union Blvd Ste 200, Lakewood, CO 80401</u>
Invoice To: <u>Gary Braun</u>	Company: <u>f2u Inc.</u>	Address: <u>1205 NE 1st St Suite 200, Bothell, WA 98011</u>
Mall Invoice To:		
TOTAL # OF BOTTLES TESTED		
4		

Cross Contamination
 No Present
 Not intact
 Variable

Batch No.

920839

En Chem, Inc. Cooler Receipt Log

Project Name or ID Roxana MarshNo. of Coolers: 3

Temps:

3, 2, 3 °CA. Receipt Phase: Date cooler was opened: 3/21/02By: RJC

- 1: Were samples received on ice? (Must be ≤ 6 C) YES NO
 2. Was there a Temperature Blank? YES NO
 3: Were custody seals present and intact? (Record on COC) YES NO
 4: Are COC documents present? YES NO
 5: Does this Project require quick turn around analysis? YES NO
 6: Is there any sub-work? YES NO
 7: Are there any short hold time tests? YES NO
 8: Are any samples nearing expiration of hold-time? (Within 2 days) YES NO

Contacted by/Who _____

Contacted by/Who _____

B. Check-in Phase: Date samples were Checked-in: 3/21/02By: RJC

- 1: Were all sample containers listed on the COC received and intact? YES NO NA
 2: Sign the COC as received by En Chem. Completed YES NO
 3: Do sample labels match the COC? YES NO NO²
 4: Check sample pH of preserved samples. (Not VOCs) Completed YES NO NA
 5: Do samples have correct chemical preservation? YES NO NO² NA
 6: Are dissolved parameters field filtered? YES NO NO² NA
 7: Are sample volumes adequate for tests requested? YES NO NO²
 8: Are VOC samples free of bubbles >6mm YES NO NO² NA
 9: Enter samples into logbook. Completed YES NO
 10: Place laboratory sample number on all containers and COC. Completed YES NO
 11: Complete Laboratory Tracking Sheet (LTS). Completed YES NO NA
 12: Start Nonconformance form. YES NO NA
 13: Initiate Subcontracting procedure. Completed YES NO NA
 14: Check laboratory sample number on all containers and COC. YES NO NA

Short Hold-time tests:

48 Hours or less	7 days	Footnotes
Coliform (6 hrs)	Flashpoint	1 Notify proper lab group immediately.
Hexavalent Chromium (24 Hrs)	TSS	2 Complete nonconformance memo.
BOD	Total Solids	
Nitrite or Nitrate	TDS	
Low Level Mercury	Sulfide	
Ortho Phosphorus	Free Liquids	
Turbidity	Total Volatile Solids	
Surfactants	Aqueous Extractable Organics- ALL	
Sulfite	Unpreserved VOC's	
En Core Preservation	Ash	
Color		

Rev. 9/5/2001, Attachment to 1-REC-5.

Subject to QA Audit.

p:/everyone/forms/samplereceiving/crl.doc

Reviewed by/date QA 3/25

- Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/22/02

Field ID : FW-RM-15-SS

Collection Date : 3/19/02

Lab Sample Number : 920839-001

Matrix Type : SOIL

Lab Project Number : 920839

WI DNR LAB ID : 113172950

Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 3/27/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 1400	1400	ug/kg		4/3/02	SW846 8270C
Acenaphthylene	< 1300	1300	ug/kg		4/3/02	SW846 8270C
Anthracene	< 890	890	ug/kg		4/3/02	SW846 8270C
Benzo(a)anthracene	3000	1300	ug/kg		4/3/02	SW846 8270C
Benzo(a)pyrene	4200	970	ug/kg		4/3/02	SW846 8270C
Benzo(b)fluoranthene	7200	1700	ug/kg		4/3/02	SW846 8270C
Benzo(g,h,i)perylene	16000	1900	ug/kg		4/3/02	SW846 8270C
Benzo(k)fluoranthene	< 2600	2600	ug/kg		4/3/02	SW846 8270C
Chrysene	6000	1900	ug/kg		4/3/02	SW846 8270C
Dibenzo(a,h)anthracene	13000	1300	ug/kg		4/3/02	SW846 8270C
Fluoranthene	3300	1400	ug/kg		4/3/02	SW846 8270C
Fluorene	< 1500	1500	ug/kg		4/3/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	15000	3100	ug/kg		4/3/02	SW846 8270C
Naphthalene	< 1500	1500	ug/kg		4/3/02	SW846 8270C
Phenanthrene	< 1600	1600	ug/kg		4/3/02	SW846 8270C
Pyrene	6900	1800	ug/kg		4/3/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

- Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/22/02

Field ID : FW-RM-10-SS

Collection Date : 3/19/02

Lab Sample Number : 920839-002

Matrix Type : SOIL

Lab Project Number : 920839

WI DNR LAB ID : 113172950

Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 3/27/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 260	260	ug/kg		4/2/02	SW846 8270C
Acenaphthylene	300	230	ug/kg		4/2/02	SW846 8270C
Anthracene	260	160	ug/kg		4/2/02	SW846 8270C
Benzo(a)anthracene	2100	230	ug/kg		4/2/02	SW846 8270C
Benzo(a)pyrene	1900	180	ug/kg		4/2/02	SW846 8270C
Benzo(b)fluoranthene	3900	310	ug/kg		4/2/02	SW846 8270C
Benzo(g,h,i)perylene	3600	340	ug/kg		4/2/02	SW846 8270C
Benzo(k)fluoranthene	1000	470	ug/kg		4/2/02	SW846 8270C
Chrysene	3500	350	ug/kg		4/2/02	SW846 8270C
Dibenzo(a,h)anthracene	2500	240	ug/kg		4/2/02	SW846 8270C
Fluoranthene	2500	250	ug/kg		4/2/02	SW846 8270C
Fluorene	< 280	280	ug/kg		4/2/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	3400	560	ug/kg		4/2/02	SW846 8270C
Naphthalene	< 260	260	ug/kg		4/2/02	SW846 8270C
Phenanthrene	720	290	ug/kg		4/2/02	SW846 8270C
Pyrene	5700	330	ug/kg		4/2/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

- Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/22/02

Field ID : FW-RM-12-SS

Collection Date : 3/19/02

Lab Sample Number : 920839-003

Matrix Type : SOIL

Lab Project Number : 920839

WI DNR LAB ID : 113172950

Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 3/27/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 1600	1600	ug/kg		4/3/02	SW846 8270C
Acenaphthylene	1600	1500	ug/kg		4/3/02	SW846 8270C
Anthracene	< 1000	1000	ug/kg		4/3/02	SW846 8270C
Benzo(a)anthracene	3800	1500	ug/kg		4/3/02	SW846 8270C
Benzo(a)pyrene	5300	1100	ug/kg		4/3/02	SW846 8270C
Benzo(b)fluoranthene	8900	2000	ug/kg		4/3/02	SW846 8270C
Benzo(g,h,i)perylene	20000	2200	ug/kg		4/3/02	SW846 8270C
Benzo(k)fluoranthene	3200	3000	ug/kg		4/3/02	SW846 8270C
Chrysene	5700	2200	ug/kg		4/3/02	SW846 8270C
Dibenzo(a,h)anthracene	15000	1600	ug/kg		4/3/02	SW846 8270C
Fluoranthene	4100	1600	ug/kg		4/3/02	SW846 8270C
Fluorene	< 1800	1800	ug/kg		4/3/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	18000	3600	ug/kg		4/3/02	SW846 8270C
Naphthalene	< 1700	1700	ug/kg		4/3/02	SW846 8270C
Phenanthrene	2300	1900	ug/kg		4/3/02	SW846 8270C
Pyrene	7300	2100	ug/kg		4/3/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

- Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/22/02

Field ID : FW-RM-16-SS

Collection Date : 3/19/02

Lab Sample Number : 920839-004

Matrix Type : SOIL

Lab Project Number : 920839

WI DNR LAB ID : 113172950

Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 3/27/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 1400	1400	ug/kg		4/3/02	SW846 8270C
Acenaphthylene	< 1300	1300	ug/kg		4/3/02	SW846 8270C
Anthracene	< 910	910	ug/kg		4/3/02	SW846 8270C
Benzo(a)anthracene	2000	1300	ug/kg		4/3/02	SW846 8270C
Benzo(a)pyrene	2100	990	ug/kg		4/3/02	SW846 8270C
Benzo(b)fluoranthene	3900	1700	ug/kg		4/3/02	SW846 8270C
Benzo(g,h,i)perylene	15000	1900	ug/kg		4/3/02	SW846 8270C
Benzo(k)fluoranthene	< 2700	2700	ug/kg		4/3/02	SW846 8270C
Chrysene	4400	2000	ug/kg		4/3/02	SW846 8270C
Dibenzo(a,h)anthracene	< 1400	1400	ug/kg		4/3/02	SW846 8270C
Fluoranthene	2100	1400	ug/kg		4/3/02	SW846 8270C
Fluorene	< 1500	1500	ug/kg		4/3/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	14000	3100	ug/kg		4/3/02	SW846 8270C
Naphthalene	< 1500	1500	ug/kg		4/3/02	SW846 8270C
Phenanthrene	< 1600	1600	ug/kg		4/3/02	SW846 8270C
Pyrene	5300	1900	ug/kg		4/3/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

- Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/22/02

Field ID : FW-RM-02-SS

Collection Date : 3/19/02

Lab Sample Number : 920839-005

Matrix Type : SOIL

Lab Project Number : 920839

WI DNR LAB ID : 113172950

Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 3/27/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 1400	1400	ug/kg		4/3/02	SW846 8270C
Acenaphthylene	< 1200	1200	ug/kg		4/3/02	SW846 8270C
Anthracene	< 870	870	ug/kg		4/3/02	SW846 8270C
Benzo(a)anthracene	4700	1200	ug/kg		4/3/02	SW846 8270C
Benzo(a)pyrene	6000	950	ug/kg		4/3/02	SW846 8270C
Benzo(b)fluoranthene	11000	1700	ug/kg		4/3/02	SW846 8270C
Benzo(g,h,i)perylene	18000	1900	ug/kg		4/3/02	SW846 8270C
Benzo(k)fluoranthene	< 2600	2600	ug/kg		4/3/02	SW846 8270C
Chrysene	12000	1900	ug/kg		4/3/02	SW846 8270C
Dibenzo(a,h)anthracene	14000	1300	ug/kg		4/3/02	SW846 8270C
Fluoranthene	2900	1400	ug/kg		4/3/02	SW846 8270C
Fluorene	< 1500	1500	ug/kg		4/3/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	15000	3000	ug/kg		4/3/02	SW846 8270C
Naphthalene	< 1400	1400	ug/kg		4/3/02	SW846 8270C
Phenanthrene	< 1600	1600	ug/kg		4/3/02	SW846 8270C
Pyrene	12000	1800	ug/kg		4/3/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

- Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/22/02

Field ID : FW-RM-06-SS

Collection Date : 3/19/02

Lab Sample Number : 920839-006

Matrix Type : SOIL

Lab Project Number : 920839

WI DNR LAB ID : 113172950

Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 3/27/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 1100	1100	ug/kg		4/3/02	SW846 8270C
Acenaphthylene	< 990	990	ug/kg		4/3/02	SW846 8270C
Anthracene	< 700	700	ug/kg		4/3/02	SW846 8270C
Benzo(a)anthracene	2200	1000	ug/kg		4/3/02	SW846 8270C
Benzo(a)pyrene	2200	770	ug/kg		4/3/02	SW846 8270C
Benzo(b)fluoranthene	3700	1400	ug/kg		4/3/02	SW846 8270C
Benzo(g,h,i)perylene	12000	1500	ug/kg		4/3/02	SW846 8270C
Benzo(k)fluoranthene	< 2100	2100	ug/kg		4/3/02	SW846 8270C
Chrysene	3800	1500	ug/kg		4/3/02	SW846 8270C
Dibenzo(a,h)anthracene	< 1100	1100	ug/kg		4/3/02	SW846 8270C
Fluoranthene	2200	1100	ug/kg		4/3/02	SW846 8270C
Fluorene	< 1200	1200	ug/kg		4/3/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	11000	2400	ug/kg		4/3/02	SW846 8270C
Naphthalene	< 1100	1100	ug/kg		4/3/02	SW846 8270C
Phenanthrene	< 1300	1300	ug/kg		4/3/02	SW846 8270C
Pyrene	5900	1400	ug/kg		4/3/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

- Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/22/02

Field ID : FW-RM-05-SS

Collection Date : 3/19/02

Lab Sample Number : 920839-007

Matrix Type : SOIL

Lab Project Number : 920839

WI DNR LAB ID : 113172950

Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 3/27/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 3100	3100	ug/kg		4/3/02	SW846 8270C
Acenaphthylene	< 2800	2800	ug/kg		4/3/02	SW846 8270C
Anthracene	9000	2000	ug/kg		4/3/02	SW846 8270C
Benzo(a)anthracene	82000	2800	ug/kg		4/3/02	SW846 8270C
Benzo(a)pyrene	47000	2100	ug/kg		4/3/02	SW846 8270C
Benzo(b)fluoranthene	79000	3800	ug/kg		4/3/02	SW846 8270C
Benzo(g,h,i)perylene	55000	4200	ug/kg		4/3/02	SW846 8270C
Benzo(k)fluoranthene	14000	5800	ug/kg		4/3/02	SW846 8270C
Chrysene	180000	4300	ug/kg		4/3/02	SW846 8270C
Dibenzo(a,h)anthracene	38000	3000	ug/kg		4/3/02	SW846 8270C
Fluoranthene	29000	3100	ug/kg		4/3/02	SW846 8270C
Fluorene	9400	3400	ug/kg		4/3/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	41000	6800	ug/kg		4/3/02	SW846 8270C
Naphthalene	< 3200	3200	ug/kg		4/3/02	SW846 8270C
Phenanthrene	5300	3500	ug/kg		4/3/02	SW846 8270C
Pyrene	220000	4000	ug/kg		4/3/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

- Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/22/02

Field ID : FW-RM-17-SS

Collection Date : 3/19/02

Lab Sample Number : 920839-008

Matrix Type : SOIL

Lab Project Number : 920839

WI DNR LAB ID : 113172950

Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 3/27/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 6900	6900	ug/kg		4/3/02	SW846 8270C
Acenaphthylene	< 6100	6100	ug/kg		4/3/02	SW846 8270C
Anthracene	26000	4400	ug/kg		4/3/02	SW846 8270C
Benzo(a)anthracene	160000	6200	ug/kg		4/3/02	SW846 8270C
Benzo(a)pyrene	50000	4700	ug/kg		4/3/02	SW846 8270C
Benzo(b)fluoranthene	81000	8400	ug/kg		4/3/02	SW846 8270C
Benzo(g,h,i)perylene	89000	9300	ug/kg		4/3/02	SW846 8270C
Benzo(k)fluoranthene	14000	13000	ug/kg		4/3/02	SW846 8270C
Chrysene	370000	9400	ug/kg		4/3/02	SW846 8270C
Dibenzo(a,h)anthracene	73000	6500	ug/kg		4/3/02	SW846 8270C
Fluoranthene	100000	6800	ug/kg		4/3/02	SW846 8270C
Fluorene	20000	7400	ug/kg		4/3/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	74000	15000	ug/kg		4/3/02	SW846 8270C
Naphthalene	< 7100	7100	ug/kg		4/3/02	SW846 8270C
Phenanthrene	< 7800	7800	ug/kg		4/3/02	SW846 8270C
Pyrene	580000	8900	ug/kg		4/3/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

- Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/22/02

Field ID : FW-RM-07-SS

Collection Date : 3/19/02

Lab Sample Number : 920839-009

Matrix Type : SOIL

Lab Project Number : 920839

WI DNR LAB ID : 113172950

Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 3/27/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 1100	1100	ug/kg		4/3/02	SW846 8270C
Acenaphthylene	< 970	970	ug/kg		4/3/02	SW846 8270C
Anthracene	< 690	690	ug/kg		4/3/02	SW846 8270C
Benzo(a)anthracene	3000	970	ug/kg		4/3/02	SW846 8270C
Benzo(a)pyrene	2600	750	ug/kg		4/3/02	SW846 8270C
Benzo(b)fluoranthene	4600	1300	ug/kg		4/3/02	SW846 8270C
Benzo(g,h,i)perylene	12000	1500	ug/kg		4/3/02	SW846 8270C
Benzo(k)fluoranthene	< 2000	2000	ug/kg		4/3/02	SW846 8270C
Chrysene	6100	1500	ug/kg		4/3/02	SW846 8270C
Dibenzo(a,h)anthracene	10000	1000	ug/kg		4/3/02	SW846 8270C
Fluoranthene	2800	1100	ug/kg		4/3/02	SW846 8270C
Fluorene	< 1200	1200	ug/kg		4/3/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	11000	2400	ug/kg		4/3/02	SW846 8270C
Naphthalene	< 1100	1100	ug/kg		4/3/02	SW846 8270C
Phenanthrene	< 1200	1200	ug/kg		4/3/02	SW846 8270C
Pyrene	8400	1400	ug/kg		4/3/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

- Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/22/02

Field ID : FW-RM-08-SS

Collection Date : 3/19/02

Lab Sample Number : 920839-010

Matrix Type : SOIL

Lab Project Number : 920839

WI DNR LAB ID : 113172950

Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 3/27/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 750	750	ug/kg		4/3/02	SW846 8270C
Acenaphthylene	< 660	660	ug/kg		4/3/02	SW846 8270C
Anthracene	< 470	470	ug/kg		4/3/02	SW846 8270C
Benzo(a)anthracene	1000	660	ug/kg		4/3/02	SW846 8270C
Benzo(a)pyrene	970	510	ug/kg		4/3/02	SW846 8270C
Benzo(b)fluoranthene	1800	900	ug/kg		4/3/02	SW846 8270C
Benzo(g,h,i)perylene	7700	1000	ug/kg		4/3/02	SW846 8270C
Benzo(k)fluoranthene	< 1400	1400	ug/kg		4/3/02	SW846 8270C
Chrysene	1600	1000	ug/kg		4/3/02	SW846 8270C
Dibenzo(a,h)anthracene	< 700	700	ug/kg		4/3/02	SW846 8270C
Fluoranthene	920	730	ug/kg		4/3/02	SW846 8270C
Fluorene	< 800	800	ug/kg		4/3/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	7100	1600	ug/kg		4/3/02	SW846 8270C
Naphthalene	< 760	760	ug/kg		4/3/02	SW846 8270C
Phenanthrene	< 840	840	ug/kg		4/3/02	SW846 8270C
Pyrene	2400	960	ug/kg		4/3/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

- Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/22/02

Field ID : FW-RM-09-SS

Collection Date : 3/19/02

Lab Sample Number : 920839-011

Matrix Type : SOIL

Lab Project Number : 920839

WI DNR LAB ID : 113172950

Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 3/27/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 1700	1700	ug/kg		4/3/02	SW846 8270C
Acenaphthylene	< 1500	1500	ug/kg		4/3/02	SW846 8270C
Anthracene	< 1100	1100	ug/kg		4/3/02	SW846 8270C
Benzo(a)anthracene	2300	1500	ug/kg		4/3/02	SW846 8270C
Benzo(a)pyrene	3500	1200	ug/kg		4/3/02	SW846 8270C
Benzo(b)fluoranthene	5400	2100	ug/kg		4/3/02	SW846 8270C
Benzo(g,h,i)perylene	18000	2300	ug/kg		4/3/02	SW846 8270C
Benzo(k)fluoranthene	< 3200	3200	ug/kg		4/3/02	SW846 8270C
Chrysene	3200	2400	ug/kg		4/3/02	SW846 8270C
Dibenzo(a,h)anthracene	< 1600	1600	ug/kg		4/3/02	SW846 8270C
Fluoranthene	2300	1700	ug/kg		4/3/02	SW846 8270C
Fluorene	< 1800	1800	ug/kg		4/3/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	17000	3800	ug/kg		4/3/02	SW846 8270C
Naphthalene	< 1800	1800	ug/kg		4/3/02	SW846 8270C
Phenanthrene	< 1900	1900	ug/kg		4/3/02	SW846 8270C
Pyrene	4700	2200	ug/kg		4/3/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

- Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/22/02

Field ID : FW-RM-01-SS

Collection Date : 3/19/02

Lab Sample Number : 920839-012

Matrix Type : SOIL

Lab Project Number : 920839

WI DNR LAB ID : 113172950

Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 3/27/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 1800	1800	ug/kg		4/3/02	SW846 8270C
Acenaphthylene	< 1600	1600	ug/kg		4/3/02	SW846 8270C
Anthracene	< 1200	1200	ug/kg		4/3/02	SW846 8270C
Benzo(a)anthracene	3800	1600	ug/kg		4/3/02	SW846 8270C
Benzo(a)pyrene	5500	1300	ug/kg		4/3/02	SW846 8270C
Benzo(b)fluoranthene	8900	2200	ug/kg		4/3/02	SW846 8270C
Benzo(g,h,i)perylene	21000	2500	ug/kg		4/3/02	SW846 8270C
Benzo(k)fluoranthene	< 3400	3400	ug/kg		4/3/02	SW846 8270C
Chrysene	6500	2500	ug/kg		4/3/02	SW846 8270C
Dibenzo(a,h)anthracene	< 1700	1700	ug/kg	N	4/3/02	SW846 8270C
Fluoranthene	4700	1800	ug/kg		4/3/02	SW846 8270C
Fluorene	< 2000	2000	ug/kg		4/3/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	19000	4000	ug/kg		4/3/02	SW846 8270C
Naphthalene	< 1900	1900	ug/kg		4/3/02	SW846 8270C
Phenanthrene	< 2100	2100	ug/kg		4/3/02	SW846 8270C
Pyrene	13000	2400	ug/kg	N	4/3/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

- Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/22/02

Field ID : FW-RM-04-SS

Collection Date : 3/19/02

Lab Sample Number : 920839-013

Matrix Type : SOIL

Lab Project Number : 920839

WI DNR LAB ID : 113172950

Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 3/27/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 470	470	ug/kg		4/3/02	SW846 8270C
Acenaphthylene	< 410	410	ug/kg		4/3/02	SW846 8270C
Anthracene	< 290	290	ug/kg		4/3/02	SW846 8270C
Benzo(a)anthracene	460	420	ug/kg		4/3/02	SW846 8270C
Benzo(a)pyrene	570	320	ug/kg		4/3/02	SW846 8270C
Benzo(b)fluoranthene	980	570	ug/kg		4/3/02	SW846 8270C
Benzo(g,h,i)perylene	4900	630	ug/kg		4/3/02	SW846 8270C
Benzo(k)fluoranthene	< 860	860	ug/kg		4/3/02	SW846 8270C
Chrysene	710	640	ug/kg		4/3/02	SW846 8270C
Dibenzo(a,h)anthracene	< 440	440	ug/kg		4/3/02	SW846 8270C
Fluoranthene	< 460	460	ug/kg		4/3/02	SW846 8270C
Fluorene	< 500	500	ug/kg		4/3/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	4400	1000	ug/kg		4/3/02	SW846 8270C
Naphthalene	< 480	480	ug/kg		4/3/02	SW846 8270C
Phenanthrene	< 530	530	ug/kg		4/3/02	SW846 8270C
Pyrene	900	600	ug/kg		4/3/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

- Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/22/02

Field ID : FW-RM-03-SS

Collection Date : 3/19/02

Lab Sample Number : 920839-015

Matrix Type : SOIL

Lab Project Number : 920839

WI DNR LAB ID : 113172950

Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 3/27/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 1100	1100	ug/kg		4/3/02	SW846 8270C
Acenaphthylene	< 990	990	ug/kg		4/3/02	SW846 8270C
Anthracene	< 700	700	ug/kg		4/3/02	SW846 8270C
Benzo(a)anthracene	2700	1000	ug/kg		4/3/02	SW846 8270C
Benzo(a)pyrene	2300	770	ug/kg		4/3/02	SW846 8270C
Benzo(b)fluoranthene	4100	1400	ug/kg		4/3/02	SW846 8270C
Benzo(g,h,i)perylene	12000	1500	ug/kg		4/3/02	SW846 8270C
Benzo(k)fluoranthene	< 2100	2100	ug/kg		4/3/02	SW846 8270C
Chrysene	5100	1500	ug/kg		4/3/02	SW846 8270C
Dibenzo(a,h)anthracene	9900	1100	ug/kg		4/3/02	SW846 8270C
Fluoranthene	2100	1100	ug/kg		4/3/02	SW846 8270C
Fluorene	< 1200	1200	ug/kg		4/3/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	11000	2400	ug/kg		4/3/02	SW846 8270C
Naphthalene	< 1100	1100	ug/kg		4/3/02	SW846 8270C
Phenanthrene	< 1300	1300	ug/kg		4/3/02	SW846 8270C
Pyrene	7100	1400	ug/kg		4/3/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

- Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/22/02

Field ID : FW-RM-08-CS-2.3-4.4

Collection Date : 3/19/02

Lab Sample Number : 920839-017

Matrix Type : SOIL

Lab Project Number : 920839

WI DNR LAB ID : 113172950

Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 3/27/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 110	110	ug/kg		4/2/02	SW846 8270C
Acenaphthylene	< 100	100	ug/kg		4/2/02	SW846 8270C
Anthracene	< 71	71	ug/kg		4/2/02	SW846 8270C
Benzo(a)anthracene	< 100	100	ug/kg		4/2/02	SW846 8270C
Benzo(a)pyrene	< 78	78	ug/kg		4/2/02	SW846 8270C
Benzo(b)fluoranthene	< 140	140	ug/kg		4/2/02	SW846 8270C
Benzo(g,h,i)perylene	< 150	150	ug/kg		4/2/02	SW846 8270C
Benzo(k)fluoranthene	< 210	210	ug/kg		4/2/02	SW846 8270C
Chrysene	< 150	150	ug/kg		4/2/02	SW846 8270C
Dibenzo(a,h)anthracene	< 110	110	ug/kg		4/2/02	SW846 8270C
Fluoranthene	< 110	110	ug/kg		4/2/02	SW846 8270C
Fluorene	< 120	120	ug/kg		4/2/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 250	250	ug/kg		4/2/02	SW846 8270C
Naphthalene	< 120	120	ug/kg		4/2/02	SW846 8270C
Phenanthrene	< 130	130	ug/kg		4/2/02	SW846 8270C
Pyrene	< 150	150	ug/kg		4/2/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

- Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/22/02

Field ID : FW-RM-08-CS-1-2.3

Collection Date : 3/19/02

Lab Sample Number : 920839-018

Matrix Type : SOIL

Lab Project Number : 920839

WI DNR LAB ID : 113172950

Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 3/27/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 170	170	ug/kg		4/2/02	SW846 8270C
Acenaphthylene	< 150	150	ug/kg		4/2/02	SW846 8270C
Anthracene	< 110	110	ug/kg		4/2/02	SW846 8270C
Benzo(a)anthracene	< 150	150	ug/kg		4/2/02	SW846 8270C
Benzo(a)pyrene	< 120	120	ug/kg		4/2/02	SW846 8270C
Benzo(b)fluoranthene	< 200	200	ug/kg		4/2/02	SW846 8270C
Benzo(g,h,i)perylene	< 230	230	ug/kg		4/2/02	SW846 8270C
Benzo(k)fluoranthene	< 310	310	ug/kg		4/2/02	SW846 8270C
Chrysene	< 230	230	ug/kg		4/2/02	SW846 8270C
Dibenzo(a,h)anthracene	< 160	160	ug/kg		4/2/02	SW846 8270C
Fluoranthene	< 170	170	ug/kg		4/2/02	SW846 8270C
Fluorene	< 180	180	ug/kg		4/2/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 370	370	ug/kg		4/2/02	SW846 8270C
Naphthalene	< 170	170	ug/kg		4/2/02	SW846 8270C
Phenanthrene	< 190	190	ug/kg		4/2/02	SW846 8270C
Pyrene	< 220	220	ug/kg		4/2/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

- Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/22/02

Field ID : FW-RM-09-CS-1-3.5

Collection Date : 3/19/02

Lab Sample Number : 920839-019

Matrix Type : SOIL

Lab Project Number : 920839

WI DNR LAB ID : 113172950

Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 3/27/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 220	220	ug/kg		4/2/02	SW846 8270C
Acenaphthylene	< 190	190	ug/kg		4/2/02	SW846 8270C
Anthracene	< 140	140	ug/kg		4/2/02	SW846 8270C
Benzo(a)anthracene	< 190	190	ug/kg		4/2/02	SW846 8270C
Benzo(a)pyrene	< 150	150	ug/kg		4/2/02	SW846 8270C
Benzo(b)fluoranthene	< 260	260	ug/kg		4/2/02	SW846 8270C
Benzo(g,h,i)perylene	< 290	290	ug/kg		4/2/02	SW846 8270C
Benzo(k)fluoranthene	< 400	400	ug/kg		4/2/02	SW846 8270C
Chrysene	< 290	290	ug/kg		4/2/02	SW846 8270C
Dibenzo(a,h)anthracene	< 200	200	ug/kg		4/2/02	SW846 8270C
Fluoranthene	< 210	210	ug/kg		4/2/02	SW846 8270C
Fluorene	< 230	230	ug/kg		4/2/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 470	470	ug/kg		4/2/02	SW846 8270C
Naphthalene	< 220	220	ug/kg		4/2/02	SW846 8270C
Phenanthrene	< 240	240	ug/kg		4/2/02	SW846 8270C
Pyrene	< 280	280	ug/kg		4/2/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

- Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/22/02

Field ID : FW-RM-09-CS-3.5-4.9

Collection Date : 3/19/02

Lab Sample Number : 920839-020

Matrix Type : SOIL

Lab Project Number : 920839

WI DNR LAB ID : 113172950

Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 3/27/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 150	150	ug/kg		4/2/02	SW846 8270C
Acenaphthylene	< 130	130	ug/kg		4/2/02	SW846 8270C
Anthracene	< 94	94	ug/kg		4/2/02	SW846 8270C
Benzo(a)anthracene	< 130	130	ug/kg		4/2/02	SW846 8270C
Benzo(a)pyrene	< 100	100	ug/kg		4/2/02	SW846 8270C
Benzo(b)fluoranthene	< 180	180	ug/kg		4/2/02	SW846 8270C
Benzo(g,h,i)perylene	< 200	200	ug/kg		4/2/02	SW846 8270C
Benzo(k)fluoranthene	< 280	280	ug/kg		4/2/02	SW846 8270C
Chrysene	< 200	200	ug/kg		4/2/02	SW846 8270C
Dibenzo(a,h)anthracene	< 140	140	ug/kg		4/2/02	SW846 8270C
Fluoranthene	< 150	150	ug/kg		4/2/02	SW846 8270C
Fluorene	< 160	160	ug/kg		4/2/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg		4/2/02	SW846 8270C
Naphthalene	< 150	150	ug/kg		4/2/02	SW846 8270C
Phenanthrene	< 170	170	ug/kg		4/2/02	SW846 8270C
Pyrene	< 190	190	ug/kg		4/2/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

- Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/22/02

Field ID : FW-RM-17-CS-0-1.5

Collection Date : 3/19/02

Lab Sample Number : 920839-021

Matrix Type : SOIL

Lab Project Number : 920839

WI DNR LAB ID : 113172950

Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 3/27/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 2200	2200	ug/kg		4/3/02	SW846 8270C
Acenaphthylene	< 1900	1900	ug/kg		4/3/02	SW846 8270C
Anthracene	17000	1400	ug/kg		4/3/02	SW846 8270C
Benzo(a)anthracene	100000	1900	ug/kg		4/3/02	SW846 8270C
Benzo(a)pyrene	35000	1500	ug/kg		4/3/02	SW846 8270C
Benzo(b)fluoranthene	50000	2600	ug/kg		4/3/02	SW846 8270C
Benzo(g,h,i)perylene	39000	2900	ug/kg		4/3/02	SW846 8270C
Benzo(k)fluoranthene	7700	4000	ug/kg		4/3/02	SW846 8270C
Chrysene	240000	3000	ug/kg		4/3/02	SW846 8270C
Dibenzo(a,h)anthracene	27000	2000	ug/kg		4/3/02	SW846 8270C
Fluoranthene	58000	2100	ug/kg		4/3/02	SW846 8270C
Fluorene	11000	2300	ug/kg		4/3/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	30000	4700	ug/kg		4/3/02	SW846 8270C
Naphthalene	< 2200	2200	ug/kg		4/3/02	SW846 8270C
Phenanthrene	3200	2500	ug/kg		4/3/02	SW846 8270C
Pyrene	390000	8400	ug/kg	D	4/4/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

- Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/22/02

Field ID : FW-RM-RB-01

Collection Date : 3/19/02

Lab Sample Number : 920839-022

Matrix Type : WATER

Lab Project Number : 920839

WI DNR LAB ID : 113172950

Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3510

Prep Date: 3/26/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 2.2	2.2	ug/L		3/28/02	SW846 8270C
Acenaphthylene	< 1.8	1.8	ug/L		3/28/02	SW846 8270C
Anthracene	< 1.8	1.8	ug/L	&	3/28/02	SW846 8270C
Benzo(a)anthracene	< 2.3	2.3	ug/L		3/28/02	SW846 8270C
Benzo(a)pyrene	< 2.7	2.7	ug/L		3/28/02	SW846 8270C
Benzo(b)fluoranthene	< 2.9	2.9	ug/L		3/28/02	SW846 8270C
Benzo(g,h,i)perylene	< 3.4	3.4	ug/L		3/28/02	SW846 8270C
Benzo(k)fluoranthene	< 2.4	2.4	ug/L		3/28/02	SW846 8270C
Chrysene	< 2.2	2.2	ug/L		3/28/02	SW846 8270C
Dibenzo(a,h)anthracene	< 3.1	3.1	ug/L		3/28/02	SW846 8270C
Fluoranthene	< 2.1	2.1	ug/L		3/28/02	SW846 8270C
Fluorene	< 1.9	1.9	ug/L		3/28/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 3.4	3.4	ug/L		3/28/02	SW846 8270C
Naphthalene	< 2.6	2.6	ug/L		3/28/02	SW846 8270C
Phenanthrene	< 2.1	2.1	ug/L		3/28/02	SW846 8270C
Pyrene	< 2.4	2.4	ug/L		3/28/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

- Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 4/22/02

Field ID : FW-RM-17-CS-1.5-3.5

Collection Date : 3/19/02

Lab Sample Number : 920839-023

Matrix Type : SOIL

Lab Project Number : 920839

WI DNR LAB ID : 113172950

Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 3/27/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 130	130	ug/kg		4/2/02	SW846 8270C
Acenaphthylene	< 110	110	ug/kg		4/2/02	SW846 8270C
Anthracene	< 79	79	ug/kg		4/2/02	SW846 8270C
Benzo(a)anthracene	360	110	ug/kg		4/2/02	SW846 8270C
Benzo(a)pyrene	130	86	ug/kg		4/2/02	SW846 8270C
Benzo(b)fluoranthene	< 150	150	ug/kg		4/2/02	SW846 8270C
Benzo(g,h,i)perylene	1300	170	ug/kg		4/2/02	SW846 8270C
Benzo(k)fluoranthene	< 230	230	ug/kg		4/2/02	SW846 8270C
Chrysene	880	170	ug/kg		4/2/02	SW846 8270C
Dibenzo(a,h)anthracene	1100	120	ug/kg		4/2/02	SW846 8270C
Fluoranthene	270	120	ug/kg		4/2/02	SW846 8270C
Fluorene	< 130	130	ug/kg		4/2/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	1100	270	ug/kg		4/2/02	SW846 8270C
Naphthalene	< 130	130	ug/kg		4/2/02	SW846 8270C
Phenanthrene	< 140	140	ug/kg		4/2/02	SW846 8270C
Pyrene	1000	160	ug/kg		4/2/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.